



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company



Job No.: CTCE/BBMP/W.No.16/KRIDL/CEMENT/2012-13



Date: 24.12.2012

TEST REPORT

CLIENT	:	Asst. Executive Engineer, Rajarajeshwarinagar (Project), BBMP, Bangalore.
AGENCY	:	Technical Manager (West), KRIDL, PIU, Bangalore.
NAME OF THE WORK	:	Development of park and play ground at Siddarthanagara in Ward No. 16, Rajarajeshwarinagara Zone, BBMP, Bangalore.
REFERENCE	:	AEE(P)/RRNZ/BBMP/PR/69/2012-13 Dated: 19.12.2012
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	185 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	25.00 %	-

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Job No.: CTCE/BBMP/W.No.16/KRIDL/SAND/2012-13



: 24.12.2012

TEST REPORT ON FINE AGGREGATES (SAND) IS 383-1970 (RA- 2002)

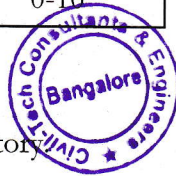
Client : Asst. Executive Engineer, Rajarajeshwarinagar (Project), BBMP, Bangalore.
Agency : Technical Manager (West), KRIDL, PIU, Bangalore.
Name of Work : Development of park and play ground at Siddarthanagara in Ward No. 16, Rajarajeshwarinagara Zone, BBMP, Bangalore.
Reference : AEE(P)/RRNZ/BBMP/PR/69/2012-13 Dated: 19.12.2012
Date of Testing : 24.12.2012
Material : Sand

Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	92	4.60	4.60	95.4	90-100
2.36	235	11.75	16.35	83.7	75-100
1.18	397	19.85	36.20	63.8	55-90
600 Micron	492	24.60	60.80	39.2	35-59
300 Micron	514	25.70	86.50	13.5	8-30
150 Micron	189	9.45	95.95	4.1	0-10

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Job No.: CTCE/BBMP/W.No.16/KRIDL/AGG/2012-13



: 24.12.2012

TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Rajarajeshwarinagar (Project), BBMP, Bangalore.
Agency : Technical Manager (West), KRIDL, PIU, Bangalore.
Name of Work : Development of park and play ground at Siddarthanagara in Ward No. 16, Rajarajeshwarinagara Zone, BBMP, Bangalore.
Reference : AEE(P)/RRNZ/BBMP/PR/69/2012-13 Dated: 19.12.2012
Date of Testing : 24.12.2012
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25150**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	968	3.85	3.85	96.15	95-100
20	16254	64.63	68.48	31.52	30-70
10	5123	20.37	88.85	11.15	10-35
4.75	2235	8.89	97.73	2.27	0-5

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Job No.: CTCE/BBMP/W.No.16/KRIDL/AGG/2012-13



: 24.12.2012

TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Rajarajeshwarinagar (Project), BBMP, Bangalore.
Agency : Technical Manager (West), KRIDL, PIU, Bangalore.
Name of Work : Development of park and play ground at Siddarthanagara in Ward No. 16, Rajarajeshwarinagara Zone, BBMP, Bangalore.
Reference : AEE(P)/RRNZ/BBMP/PR/69/2012-13 Dated: 19.12.2012
Date of Testing : 24.12.2012
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Tabel - 1

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	198	3.96	4.0	96.04	95-100
10	3124	62.48	66.4	33.56	25-55
4.75	1412	28.24	94.7	5.32	0-10

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Job No.: CTCE/BBMP/W.No.16/KRIDL/Fencing/2012-13

02.01.2013

TEST REPORT ON CHAIN LINK FENCING WIRE (8th Gauge)

Client : **Asst. Executive Engineer, Rajarajeshwarinagar (Project), BBMP, Bangalore.**

Agency : **Technical Manager (West), KRIDL, PIU, Bangalore.**

Name of work : Development of park and play ground at Siddarthanagara in Ward No. 16, Rajarajeshwarinagara Zone, BBMP, Bangalore.

Reference : AEE(P)/RRNZ/BBMP/PR/69/2012-13 Dated: 19.12.2012

Samples ID : Samples Supplied By Agency



Sl.No	Description	Result
1	Diameter	4.10 mm
2	Internal Spacing	50 mm X 50 mm
3	Weight / Meter (1m x 1m)	4.495 Kg

The Results relate only to the items tested

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Job No.: CTCE/BBMP/W.No.16/KRIDL/MS Angle/2012-13

02.01.2013

TEST REPORT ON STRUCTURAL STEEL

Client : **Asst. Executive Engineer, Rajarajeshwarinagar (Project), BBMP, Bangalore.**

Agency : **Technical Manager (West), KRIDL, PIU, Bangalore.**

Name of work : **Development of park and play ground at Siddarthanagara in Ward No. 16, Rajarajeshwarinagara Zone, BBMP, Bangalore.**

Reference : **AEE(P)/RRNZ/BBMP/PR/69/2012-13 Dated: 19.12.2012**

Samples ID : **Samples Supplied By Agency**

Specimen Size : **ISA-65X65X6mm (1m Length)**



Sl.No	Description	Result
1	Thickness	6.15 mm
2	Width	65.0 mm
3	Weight / Meter	5.87 Kg

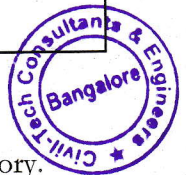
The Results relate only to the items tested

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Job No.: CTCE/BBMP/W.No.16/KRIDL/MS Pipe/2012-13



02.01.2013

TEST REPORT ON M.S PIPE (38mm Dia)

Client : Asst. Executive Engineer, Rajarajeshwarinagar (Project), BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, PIU, Bangalore.

Name of work : Development of park and play ground at Siddarthanagara in Ward No. 16, Rajarajeshwarinagara Zone, BBMP, Bangalore.

Reference : AEE(P)/RRNZ/BBMP/PR/69/2012-13 Dated: 19.12.2012

Specimen Size : M.S Pipe 38mm Dia

PHYSICAL TEST

Sl.No	Description	Result
1	Thickness	2.10 mm
2	Inner Diameter	38.15 mm
3	Outer Diameter	42.35 mm
4	Weight / Meter	1.878 kg

The Results relate only to the items tested

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Job No.: CTCE/BBMP/W.No.16/KRIDL/Kerb Stone/2012-13



10.01.2013

CC KERB STONE (CORE) TEST REPORT

Name of Client : Asst. Executive Engineer, Rajarajeshwarinagar (Project), BBMP, Bangalore.

Name of Agency : Technical Manager (West), KRIDL, PIU, Bangalore.

Name of work : Development of park and play ground at Siddarthanagara in Ward No. 16, Rajarajeshwarinagara Zone, BBMP, Bangalore.

Referece : AEE(P)/RRNZ/BBMP/PR/69/2012-13 Dated: 19.12.2012

No.of Sample Tested : 03

Date of Testing : 10.01.2013

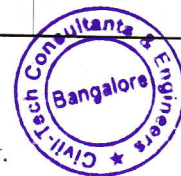
Technical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M₁₅

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	73.00	0.362	2525.55	1.46	0.957	25.4	12.92	13.95	13.35	16.69
2	50.00	74.00	0.370	2546.48	1.48	0.960	26.6	13.54	14.62	14.04	17.54
3	50.00	75.00	0.379	2573.64	1.50	0.962	27.3	13.91	15.03	14.46	18.07

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Job No.: CTCE/BBMP/W.No.16/KRIDL/Paver Blocks/2012-13



10.01.2013

TEST REPORT

Client	:	Asst. Executive Engineer, Rajarajeshwarinagar (Project), BBMP, Bangalore.
Agency	:	Technical Manager (West), KRIDL, PIU, Bangalore.
Name of the work	:	Development of park and play ground at Siddarthanagara in Ward No. 16, Rajarajeshwarinagara Zone, BBMP, Bangalore.
Reference	:	AEE(P)/RRNZ/BBMP/PR/69/2012-13 Dated: 19.12.2012
Type of the test	:	PHYSICAL TESTS ON PAVER BLOCKS
Samples supplied by	:	AGENCY

The results of the tests conducted on the Paver Blocks sample are as follows:

1. THICKNESS:

Sl. No	Identification	Thickness, mm	Average thickness, mm
1	01	60.15	60.18
2	02	60.20	

2. COMPRESSIVE STRENGTH:

Sl. No	Identification	Load in Kilo-Newton	Cross sectional area, mm ²	Compressive strength N/mm ²
1	01	764.8	24,200	31.60
2	02	766.5	24,200	31.67

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